Answers - 3, 4 and 8 times tables

Year: Year 3

Answer to Question 1

a. 12 and 18: **3, 6, 9, 12, 15, 18, 21**.
b. 12 and 20: **4, 8, 12, 16, 20, 24, 28**.
c. 24 and 40: **8, 16, 24, 32, 40, 48**.
d. 64, 56, 48, 40, 32, 24, 16, 8.

Answer to Question 2

a. $3 \times 7 =$ **21**.
b. $4 \times 9 =$ **36**.
c. $8 \times 6 =$ **48**.
d. $3 \times 12 =$ **36**.
e. $4 \times 8 =$ **32**.
f. $8 \times 9 =$ **72**.
g. $8 \times 7 =$ **56**.
h. $3 \times 8 =$ **24**.

Answer to Question 3

a. $21 \div 3 =$ **7**. Check: $7 \times 3 = 21$.
b. $32 \div 4 =$ **8**. Check: $8 \times 4 = 32$.
c. $56 \div 8 =$ **7**. Check: $7 \times 8 = 56$.
d. $36 \div 4 =$ **9**. Check: $9 \times 4 = 36$.
e. $72 \div 8 =$ **9**. Check: $9 \times 8 = 72$.
f. $27 \div 3 =$ **9**. Check: $9 \times 3 = 27$.

Answer to Question 4

a. Multiplying by 4 is doubling twice. Double 6 is 12, and double 12 is 24. So $4 \times 6 =$ **24**.
b. 8 is double 4, so 8×9 is double 4×9. Double 36: 30 doubled is 60 and 6 doubled is 12, so $60 + 12 =$ **72**.
c. 6 is double 3, so 6×5 is double 3×5. Double 15 is **30**.
d. 8 is double 4, so 8×7 is double 28. 20 doubled is 40 and 8 doubled is 16, so $40 + 16 =$ **56**.

Answer to Question 5

a. **7**, because 4 × 7 = 28.
b. **8**, because 8 × 8 = 64.
c. **11**, because 3 × 11 = 33.
d. **36**, because 36 ÷ 4 = 9.
e. **8**, because 48 ÷ 8 = 6.

Answer to Question 6

a. 7 × 3 = 21, 21 ÷ 3 = 7, 21 ÷ 7 = 3.
b. 8 × 4 = 32, 32 ÷ 4 = 8, 32 ÷ 8 = 4.
c. 5 × 8 = 40, 40 ÷ 8 = 5, 40 ÷ 5 = 8.

Answer to Question 7

a. 6 boxes with 4 cupcakes in each: 6 × 4. Double 6 is 12 and double again is 24, so Aisha buys **24** cupcakes.
b. 7 bags with 3 brownies in each: count in 3s seven times: 3, 6, 9, 12, 15, 18, 21. Ben buys **21** brownies.
c. 5 packs of 8 cookies: 5 × 8 = **40** cookies. Half of 10 × 8 = 80 gives the same answer.
d. Add the three amounts: 24 + 21 = 45, then 45 + 40 = **85** items altogether.

Answer to Question 8

a. 9 packets of 8 stickers: 9 × 8. Use 10 × 8 = 80 and take away one 8: 80 − 8 = **72** stickers.
b. 4 packets of 8: 4 × 8 = **32** stickers (double 8 is 16, double 16 is 32).
c. Find the difference: 72 − 32 = **40**. Ravi buys 40 more. This is also 5 packets × 8, because he buys 5 more packets.
d. Ravi plus 3 friends is **4** people. 72 ÷ 4: half of 72 is 36 and half of 36 is 18, so each person gets **18** stickers.

Answer to Question 9

a. Each spider has 8 legs: 4 × 8 = **32** legs.
b. Each beetle has 6 legs: 3 × 6 = **18** legs.
c. Add the spider legs and the beetle legs: 32 + 18 = **50** legs.
d. 8 ladybirds with 6 legs each: 8 × 6. Double 6 three times: 12, 24, 48. The ladybirds have **48** legs.

Answer to Question 10

a. 5 × £3 = **£15**.
b. 3 × £4 = **£12**.
c. 2 × £8 = **£16**.
d. 15 + 12 + 16 = £43. £50 − £43 = **£7**.

Answer to Question 11

a. Each ticket costs £8: 4 × £8 = **£32**.
b. Each box of popcorn costs £4: 4 × £4 = **£16**.
c. Add tickets and popcorn: £32 + £16 = **£48**.
d. Share £48 equally between 4 friends: 48 ÷ 4. Half of 48 is 24 and half of 24 is 12, so each friend pays **£12**. Check: 4 × £12 = £48.

Answer to Question 12

a. 6 × 8 = **48**.
b. 48 ÷ 4 = **12** rows.
c. 48 ÷ 3 = **16**.
d. 48 ÷ 5 = 9 remainder 3. **No**, 48 is not in the 5 times table.

Answer to Question 13

a. 7 trays of 8 apples: 7 × 8 = **56** apples.
b. 9 bags of 4 oranges: 9 × 4. Use 10 × 4 = 40 and take away one 4: **36** oranges.
c. 12 bunches of 3 bananas: 12 × 3. 10 × 3 = 30 and 2 × 3 = 6, so 30 + 6 = **36** bananas.
d. Pack 56 apples into bags of 4: 56 ÷ 4. Halve 56 to get 28, then halve again to get **14** bags. Check: 14 × 4 = 56.

Answer to Question 14

a. 32 ÷ 4 = **8** lanes.
b. Yes, **8 lanes** are exactly enough.
c. 32 ÷ 3 = 10 remainder 2. **No**: 11 lanes are needed with 2 children in the last lane.
d. 24 ÷ 8 = **3** groups.

Answer to Question 15

a. 8 friends each get 3 sandwiches: 8 × 3 = **24** sandwiches.
b. 8 friends each get 4 biscuits: 8 × 4 = **32** biscuits.
c. Biscuits come in packs of 8. How many 8s make 32? 4 × 8 = 32, so she needs **4** packs.
d. Each of the 24 sandwiches uses 3 slices: 24 × 3 = 72 slices. A loaf has 24 slices, and 3 × 24 = 72, so she needs **3 loaves**.

Answer to Question 16

a. 96 ÷ 8 = **12**.
b. 96 ÷ 48 = **2**.
c. Minibuses: 12 × 40 = £480. Coaches: 2 × 100 = £200. The **coaches** are cheaper.
d. 480 − 200 = **£280**.

Answer to Question 17

a. 6 packets × 3 = **18**.
b. 5 bags × 4 = **20**.
c. 4 bags × 8 = **32**.
d. 20 + 32 = 52. 52 ÷ 4 = **13** rows.

Answer to Question 18

a. 8 × 6 = 48. **Wrong**. 6 × 9 = 54, so he mixed it up.
b. 4 × 7 = 28. **Right**.
c. 3 × 9 = 27. **Wrong**. 3 × 8 = 24.
d. 8 × 8 = 64. **Right**.

Answer to Question 19

a. 8 people is double 4 people, so 2 × 3 = **6** eggs.
b. 2 × 8 = **16** spoons.
c. 12 people is 3 times 4 people: 3 × 3 = **9** eggs.
d. 3 × 8 = **24** spoons.

Answer to Question 20

a. Work backwards: 40 − 8 = 32, then 32 ÷ 4 = **8**. Check: 8 × 4 + 8 = 40.

b. Work backwards: 58 + 6 = 64, then 64 ÷ 8 = **8**. Check: 8 × 8 − 6 = 58.
c. The number must be in the 3 times table, the 4 times table and the 8 times table. Multiples of 8 are 8, 16, 24. 24 is also in the 3 times table (3 × 8) and in the 4 times table. So **24** is the first.